year is Rs ·39 of a lakh after setting apart Rs 40,000 towards the Depreciation Fund. This works up to about 5·8 per cent. on the capital outlay on the scheme. The Depreciation Fund is expected to stand at Rs 1·83 lakhs at the close of the next year.

38. *Telephone.*—An allotment of Rs 12,500 has been provided for the work next year. The capital cost of the scheme will stand at Rs 1·01 lakhs at the end of the current year and at Rs 1·13 lakhs at the end of the next year. The net revenue from the scheme as per budget estimate is Rs 5,690.

39. *Quilon Electric Supply Scheme.*—It is proposed to supply electrical energy to the municipal town of Quilon. The scheme is estimated to cost Rs 2·1 lakhs and will be treated as a part of the bigger scheme taken in hand at Pallivasal. The Quilon scheme is expected to be a paying concern like the Trivandrum Electric Supply Scheme, and a sum of Rs 1,50,000 has been provided in the budget for 1109.

40. *Construction of a bridge at Neriamangalam across the Periyar.*—Out of the provision of Rs 1·75 lakhs made in the current year's budget an expenditure of only Rs 1·54 lakhs is expected to be incurred during the current year. For 1109, a sum of Rs 2·07 lakhs has been provided. The bridge is expected to be completed in the course of the next year.

41. *Pallivasal Hydro-Electric Scheme.*—The scheme has undergone considerable alterations in its design and lay-out since it was discussed in the last Budget Session. The scheme as now sanctioned for execution provides for a Water Tunnel (approximately 10,000 feet long), 2 pipe lines (each approximately 8,000 feet long and intended to discharge 30 Cusecs of water), 3 Generating sets each of 5,000 K. V. A. capacity, 3 sets of Transformers for stepping up the generation voltage of 11,000 to 66,000, 74 miles of Double Circuit, 66,000 volt lines, 34 miles of Double Circuit 33,000 volt lines, 52 miles of 11,000 volt Single Circuit lines, in addition to 45 miles of 400 volts and 4 wire distribution net work. The area of supply covers the High Ranges, Alwaye, Kotamangalam, Kottayam, Changanachery, Tiruvella, Alleppey, Shertallai, Kuthiathodu, Thycattuseri and the Punja fields. The sanctioned estimate for the scheme now is Rs 70·8 lakhs and it is proposed to carry out the whole work immediately instead of in stages as originally intended. In view of the possibility of the development of large industries at Alwaye and its neighbourhood, the extension of the supply lines to these areas has now been provided for. This will necessitate the installation of an additional Generating set in the Power House and a Pipe Line. Double Circuit Transmission lines are now provided as against Single lines originally included. This is intended to safeguard the continuity of supply against any interruption due to lightning or other causes. In view of the unreliable nature of the country through which the water course from the Munnar River to the forebay was originally proposed to be run it is now decided to drive a tunnel through the hills to safeguard against any interruptions in the

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[Mr. R. Nilakanta Pillai.]

water supply on account of any slip from the hill sides. Experience of the last two monsoons has shown that such a course is highly necessary as a portion of the hill through which the water has to be diverted has been slipping and sliding slowly year after year. With the tunnel which will be driven right through the mountains the water course will be entirely free from any such dangers and in a scheme of this nature where the implications are of a far-reaching character, every precaution to ensure continuous supply has to be taken. These are the main reasons why the estimate figures show an increase over those stated in the last Budget Session. Further, provision has now been made for interest charges for the period of construction when the capital will be unremunerative. The whole estimated cost is distributed under the various sub-heads as follows :—

| | | |
|---|---|---|
| Head Works | Rs | 31·73 |
| Transmission | Rs | 22·07 |
| Distribution | Rs | 5·96 |
| Supervision | Rs | 3·00 |
| Contingencies | Rs | 2·50 |
| Other miscellaneous charges including interest on Capital outlay | Rs | 5·50 |
| Total | Rs | 70·76 |

or roughly Rs 70 80 lakhs.

With the assurance of a definite connected load which will bring in a consumption of 7 to 8 million units per annum from the very commencement, the financial aspect appears to be sound as it might be possible to meet interest charges and working expenses from the early stages of operation. The scheme has already been taken in hand for execution and the preliminary works in connection with the construction of staff quarters and road are already in progress. A Special Engineer experienced in tunnel construction and who was till recently in the Punjab Government service in the Uhl river project has been appointed and he is organising the works in connection with the Tunnel Driving. Specifications for the various items of plant and machinery are under preparation and contracts will be placed after inviting tenders by January 1934. A provision of Rs 10 lakhs is therefore made in the next year's budget under the head Pallivasal Hydro-Electric Scheme.

42. *Sinking Funds.*—The Sinking Fund created in connection with the Shencotta—Quilon Railway is expected to amount to Rs 75·38 lakhs at the close of the next year. The whole amount remains invested in gilt-edged securities.

Our Debenture Loan Liability stands at Bh. Rs 14,49,000. The whole amount is repayable in 1941. To repay this debt, Government have a Sinking Fund which will amount to Rs 9,71,000 at the close of 1108 and to Rs 10,55,000 at the end of the next year. The usual

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